Author Index

ABE R. *see* PERRIN P.J.
ABEDI-VALUGERDI M. *see* HU H.
ADACHI S. *see* MEKORI Y.A.
ADAMS T.E. *see* HARDY C.L.
AKBAR A.N. *see* BORTHWICK N.J.
ALBEROLA-ILA J. *see* GALLART T.
ALLENDE L.M., CORELL A., MADROÑO A., GÓNGORA R., RODRÍGUEZ-GALLEGO C., LÓPEZ-GOYANES A., ROSAL M. & ARNAIZ-VILLENA A. Retinol (vitamin A) is a cofactor in CD3-induced human T-lymphocyte activation, 388
AMIR-ZALTZMAN Y. *see* DAYAN M.
ANDOH A., FUJIYAMA Y., SUMIYOSHI K., SAKUMOTO H., OKABE H. & BAMBA T. Tumour necrosis factor-α up-regulates decay-accelerating factor gene expression in human intestinal epithelial cells, 358
ANGEL DE LA FUENTE M. *see* GALLART T.
AOKI I. *see* TSUJI T.
APPELBERG R. *see* FLORIDO M.
ARAGHI-NIKNAM M., LIANG B., ZHANG Z., ARDESTANI S.K. & WATSON R.R. Modulation of immune dysfunction during murine leukaemia retrovirus infection of old mice by dehyroepiandrosterone sulfate (DHEAS), 344
ARANDA E. *see* BLÁZQUEZ M.V.
ARDESTANI S.K. *see* ARAGHI-NIKNAM M.
ARNAIZ-VILLENA A. *see* ALLENDE L.M.
ARRIAGA K. *see* HERNANDEZ-PANDO R.
ASANO Y. *see* TSUJI T.

BAARS P.A. *see* LENS S.M.A.
BAMBA T. *see* ANDOH A.
BANLA M. *see* SOBOSLAY P.T.
BARWARI L. *see* SHIRWAN H.
BATCHASSI E. *see* SOBOSLAY P.T.
BAUDYŠ M. *see* ŠÍROVÁ M.
BAUER H., JUNG T., TSIKAS D., STICHTENOTH D.O., FRÖLICH J.C. & NEUMANN C. Nitric oxide inhibits the secretion of T-helper 1- and T-helper 2-associated cytokines in activated human T cells, 205
BEALE D. *see* HE M.
BEHM C.A. *see* TAKAMOTO M.
BELFRAGE H., DOHLSTEN M., HEDLUND G. & KALLAND T. Prevention of superantigen-induced down-regulation of T-cell mediated cytotoxic activity by IL-2 *in vivo*, 183
BERGE J. *see* LARSSON M.
BETHGE W. *see* HOLZER U.
BEUKELMAN C.J. *see* KROES B.H.
BHATHAL P.S. *see* HARDY C.L.
BIANCHINE P.J. *see* MEKORI Y.A.
BIANCO N.E. *see* DE SANCTIS J.B.
BLANCA I. *see* DE SANCTIS J.B.
BLÁZQUEZ M.V., LUQUE I., COLLANTES E., ARANDA E., SOLANA R., PEÑA J. & MUÑOZ E. Cellular redox status influences both cytotoxic and NF-κB activation in natural killer cells, 455
BOW. *see* HERMANS M.H.A.
BOATIN B.A. *see* SOBOSLAY P.T.
BODINIER M.-C. *see* LEDUC I.
BÖHME J. *see* PILSTRÖM B.
BOLTZ-NITULESCU G. *see* SPITTLER A.
BORTHWICK N.J., AKBAR A.N., MACCORMAC L.P., LOWDELL M., CRAIGEN J.L., HASSAN I., GRUNDY J.E., SALMON M. & YONG K.L. Selective migration of highly differentiated primed T cells, defined by low expression of CD45RB, across human umbilical vein endothelial cells, effects of viral infection on transmigration, 272
BRIGGS C., GARCIA C., ZHANG L., GUAN L., GABRIEL J.L. & ROGERS T.J. Mutations affecting the superantigen activity of staphylococcal enterotoxin B, 169
BRODOWICZ T. *see* SPITTLER A.
BRÖKER B.M. *see* CASTAN J.
BROWN R. *see* DELEHANTY L.L.
BROWN W.C. *see* HIRANO A.
BUCHANAN K.L. & MURPHY J.W. Kinetics of cellular infiltration and cytokine production during the efferent phase of a delayed-type hypersensitivity reaction, 189
BUKAWA H. *see* TSUJI T.
BURKE C.M. *see* TORMEY V.J.
BURNETT E.R. *see* SANDILANDS G.P.
BURT H.M. *see* JACKSON J.K.
BUSSOLATI B., MARIANO F., MONTRUCCHIO G., PICCOLI G. & CAMUSSI G. Modulatory effect of interleukin-10 on the production of platelet-activating factor and superoxide anions by human leucocytes, 440

CAMUSSI G. *see* BUSSOLATI B.
CAO Y., YANG M., LUO Z. & MOHAPATRA S.S. Vaccination with a multi-epitopic recombinant allergen induces specific immune deviation via T-cell anergy, 46
CARAYANNIOTIS G. *see* RAO V.P.
CARAYANNIOTIS G., MASTERS S.R. & NOELLE R.J. Suppression of murine thyroiditis via blockade of the CD40–CD40L interaction, 421
CASTAN J., TENNER-RACZ K., RACZ P., FLEISCHER B. & BRÖKER B.M. Accumulation of CTLA-4 expressing T lymphocytes in the germinal centres of human lymphoid tissues, 265
CHAMPION B.R. *see* DELEHANTY L.L.
CHANG R.-H., LIN FENG M.-H., LIU W.-H. & LAI M.-Z. Nitric oxide increased interleukin-4 expression in T lymphocytes, 364
CHARAN S., PALMER K., CHESTER P., MIRE-SLUIS A.R. & EDINGTON N. Transforming growth factor-β induced by live or ultraviolet-inactivated equid herpes virus type-1 mediates immunosuppression in the horse, 586
CHESTER P. *see* CHARAN S.
CLAASSEN E. *see* LEENAARS P.P.A.M.
COGNÉ M. *see* LEDUC I.
COLEY J. *see* HE M.
COLLANTES E. *see* BLÁZQUEZ M.V.
CONDE C. *see* REVILLA C.
COOPER A.M. *see* FLORIDO M.
COOPER M.D. *see* SU D.-M.
CORELL A. *see* ALLENDE L.M.
CRAIGEN J.L. *see* BORTHWICK N.J.
CRAMER D.V. *see* SHIRWAN H.

DANNECKER G.E. *see* HOLZER U.
DASTYCH J. *see* MEKORI Y.A.
DAVIS T.A. *see* PERRIN P.J.
DAYAN M., ZINGER H., KALUSH F., MOR G., AMIR-ZALTZMAN Y., KOHEN F., STHOEGER Z. & MOZES E. The beneficial effects of treatment with tamoxifen and anti-oestradiol antibody on experimental systemic lupus erythematosus are associated with cytokine modulations, 101
DE BOER N. *see* HERMANS M.H.A.
DE MORAES-PINTO M.I., VINCE G.S., FLANAGAN B.F., HART C.A. & JOHNSON P.M. Localization of IL-4 and IL-4

receptors in the human term placenta, decidua and amniochorionic membranes, 87
DE SANCTIS J.B., BLANCA I. & BIANCO N.E. Secretion of cytokines by natural killer cells primed with interleukin-2 and stimulated with different lipoproteins, 526
DEENEN G.J. *see* HERMANS M.H.A.
DELEHANTY L.L., PAYNE J.A., FARROW S.N., BROWN R. & CHAMPION B.R. Apoptosis in a Fas-resistant, T-cell receptor-sensitive human leukaemic T-cell clone, 383
DEMARCO DE HORMAECHE R. *see* HARRISON J.A.
DIALYNAS D.P., LEE M.-J., SHAO L.E., TAN P.C. & YU J. Phenotypic and functional characterization of a new human macrophage cell line K1m demonstrating immuno-phagocytic activity and signalling through HLA class II, 470
DILMEC A. *see* TORMEY V.J.
DIMMOCK N.J. *see* MCLAIN L.
DOHLSTEN M. *see* BELFRAGE H.
see also HOLZER U.; LABUDA T.
DONG R.-P. *see* HEGEN M.
DORF M.E. *see* TSUJI T.
DOWNIE I. *see* SANDILANDS G.P.
DREWECK C.M. *see* SOBOSLAY P.T.
DROUET M. *see* LEDUC I.

EDINGTON N. *see* CHARAN S.
EDWARDS S.W. *see* GASMI L.
EIBL B. *see* NACHBAUR D.
ELSON C.J. *see* STASIUK L.M.
ESTES D.M. *see* HIRANO A.

FARIS M., KOKOT N., STAHL N. & NEL A.E. Involvement of Stat3 in interleukin-6-induced IgM production in a human B-cell line, 350
FARROW S.N. *see* DELEHANTY L.L.
FAUL J. *see* TORMEY V.J.
FLANAGAN B.F. *see* DE MORAES-PINTO M.I.
FLEGO L. *see* MACARDLE P.J.
FLEISCHER B. *see* CASTAN J.
FLORIDO M., APPELBERG R., ORME I.M. & COOPER A.M. Evidence for a reduced chemokine response in the lungs of beige mice infected with *Mycobacterium avium*, 600
FORSUM U. *see* LARSSON M.
FRÖLICH J.C. *see* BAUER H.
FUJIYAMA Y. *see* ANDOH A.
FUKUSHIMA J. *see* TSUJI T.
FUSCO M. *see* MACARDLE P.J.

GABRIEL J.L. *see* BRIGGS C.
GÄCHTER A. *see* NACHBAUR D.
GALLART T., ANGEL DE LA FUENTE M., JOSEP BARCELÓ J., ALBEROLA-ILA J. & LOZANO F. Desialylation of T lymphocytes overcomes the monocyte dependency of pokeweed mitogen-induced T-cell activation, 57
GANI M. *see* HE M.
GAO J.-X. & ISSEKUTZ A.C. The β_1 integrin, very late activation antigen-4 on human neutrophils can contribute to neutrophil migration through connective tissue fibroblast barriers, 448
GARCIA C. *see* BRIGGS C.
GARDNER S.D. *see* REID P.A.
GASMI L., MCLENNAN A.G. & EDWARDS S.W. Diadenosine polyphosphates induce intracellular Ca^{2+} mobilization in human neutrophils via a pertussis toxin sensitive G-protein, 154
GEIGER S.M. *see* SOBOSLAY P.T.
GELUK A., VAN MEIJGAARDEN K.E. & OTTENHOFF T.H.M. Flexibility in T-cell receptor ligand repertoires depends on MHC and T-cell receptor clonotype, 370
GHORAISHIAN M. *see* STASIUK L.M.
GILMORE G.L. Recovery from retrovirus-induced immune suppression in BDP/J mice: dominance of the 'regressor' phenotype, 7
GLASSL H. *see* NACHBAUR D.
GOFF J.P. *see* MEKORI Y.A.
GÓNGORA R. *see* ALLENDE L.M.
GONZÁLEZ A.L. *see* REVILLA C.
GRANT K.R., HARNETT W., MILLIGAN G. & HARNETT M.M. Differential G-protein expression during B- and T-cell development, 564
GREWAL I.S., HEILIG M., MILLER A. & SERCARZ E.E. Environmental regulation of T-cell function in mice: group housing of males affects accessory cell function, 165
GRUNDY J.E. *see* BORTHWICK N.J.
GUAN L. *see* BRIGGS C.

HADLEY A.G. *see* SHEPARD S.L.
HAFFAR O.K. *see* WONG J.G.P.
HAMAJIMA K. *see* TSUJI T.
HARDY C.L., BHATHAL P.S., SNIBSON K.J. & ADAMS T.E. Comparison of intrahepatic lymphocytes from normal and growth hormone transgenic mice with chronic hepatitis and liver cancer, 412
HARNETT M.M. *see* GRANT K.R.
see also REID P.A.
HARNETT W. *see* GRANT K.R.
HARRISON J.A., VILLARREAL-RAMOS B., MASTROENI P., DEMARCO DE HORMAECHE R. & HORMAECHE C.E. Correlates of protection induced by live Aro⁻ *Salmonella typhimurium* vaccines in the murine typhoid model, 618
HART C.A. *see* DE MORAES-PINTO M.I.
HASKO G. *see* SZABÓ C.
HASKO G. *see* SZABÓ C.
HASSAN I. *see* BORTHWICK N.J.
HASSAN J. & REEN D.J. Cord blood $CD4^+$ $CD45RA^+$ T cells achieve a lower magnitude of activation when compared with their adult counterparts, 397
HE M., GANI M., LIVNAH O., STURA E.A., BEALE D., COLEY J., WILSON I.A. & TAUSSIG M.J. Sequence, specificity and crystallization of an oestrone-3-glucoronide antibody (3910), 632
HEDLUND G. *see* BELFRAGE H.
see also LABUDA T.
HEGEN M., KAMEOKA J., DONG R.-P., SCHLOSSMAN S.F. & MORIMOTO C. Cross-linking of CD26 by antibody induces tyrosine phosphorylation and activation of mitogen-activated protein kinase, 257
HEILIG M. *see* GREWAL I.S.
HELAL A. *see* LEDUC I.
HENDRIKSEN C.F.M. *see* LEENAARS P.P.A.M.
HERMANS M.H.A., DEENEN G.J., DE BOER N., BO W., KROESE F.G.M. & OPSTELTEN D. Expression of HIS50 Ag: a rat homologue of mouse heat-stable antigen and human CD24 on B lymphoid cells in the rat, 14
HERNANDEZ-PANDO R., OROZCO E.H., ARRIAGA K., SAMPIERI A., LARRIVA-SAHD J. & MADRID-MARINA V. Analysis of the local kinetics and localization of interleukin-1α, tumour necrosis factor-α and transforming growth factor-β, during the course of experimental pulmonary tuberculosis, 607
HEROLD M. *see* NACHBAUR D.
HIRANO A., BROWN W.C. & ESTES D.M. Cloning, expression, and biological function of the bovine CD40 homologue: role in B-lymphocyte growth and differentiation in cattle, 294
HOLZER U., ORLIKOWSKY T., ZEHRER C., BETHGE W., DOHLSTEN M., KALLAND T., NIETHAMMER D. & DANNECKER G.E. T-cell stimulation and cytokine release induced by staphylococcal enterotoxin A (SEA) and the SEAD227A mutant, 74
HOOIBRINK B. *see* LENS S.M.A.
HORIE S., OKUBO Y., HOSSAIN M., MOMOSE T., SUZUKI J., ISOBE M. & SEKIGUCHI M. Intercellular adhesion molecule-1 on eosinophils is involved in eosinophil protein X release induced by cytokines, 301
HORMAECHE C.E. *see* HARRISON J.A.
HOSSAIN M. *see* HORIE S.
HOVORKA O. *see* ŠÍROVÁ M.
HU H., ABEDI-VALUGERDI M. & MÖLLER G. Pretreatment of lymphocytes with mercury *in vitro* induces a response in T cells from genetically determined low responders and a shift of the interleukin profile, 198
HUBER C. *see* NACHBAUR D.

IMAI Y. *see* ORUI H.
ISHIGATSUBO Y. *see* TSUJI T.
ISHII N. *see* TSUJI T.
ISOBE M. *see* HORIE S.
ISSEKUTZ A.C. *see* GAO J.-X.

JACKSON J.K., TUDAN C., SAHL B., PELECH S.L. & BURT H.M. Calcium pyrophosphate dihydrate crystals activate MAP kinase in human neutrophils: inhibition of MAP kinase, oxidase activation and degranulation responses of neutrophils by taxol, 502
JOHANSSON A.G. *see* LARSSON M.
JOHNSON P.M. *see* DE MORAES-PINTO M.I.
JOSEP BARCELÓ J. *see* GALLART T.
JUNE C.H. *see* PERRIN P.J.
JUNG T. *see* BAUER H.

KALLAND T. *see* BELFRAGE H.
see also HOLZER U.; LABUDA T.
KALUSH F. *see* DAYAN M.
KAMEOKA J. *see* HEGEN M.
KAMIYA H. *see* TSUJI T.
KANG A.H. *see* MYERS L.K.
KATO C. *see* SAITO K.
KATSURAGI H. *see* SAITO K.
KAWAMOTO Y. *see* TSUJI T.
KEENAN C., LONG A., VOLKOV Y. & KELLEHER D. Protein kinase C isotypes θ, δ and η in human lymphocytes: differential responses to signalling through the T-cell receptor and phorbol esters, 557
KELLEHER D. *see* KEENAN C.
KIM S.-W. *see* ŠÍROVÁ M.
KINCADE P.W. *see* SANTOS-ARGUMEDO L.
KLOSNER G. *see* NEUNER P.
KNOBLER R. *see* NEUNER P.
KOBAYASHI Y. Langerhans' cells produce type IV collagenase (MMP-9) following epicutaneous stimulation with haptens, 496
KOHEN F. *see* DAYAN M.
KOKOT N. *see* FARIS M.
KOMAI-KOMA M. & WILKINSON P.C. Locomotor properties of human germinal centre B cells: activation by anti-CD40 and IL-4 allows chemoattraction by anti-immunoglobulin, 23
KROES B.H., BEUKELMAN C.J., VAN DEN BERG A.J.J., WOLBINK G.J., VAN DIJK H. & LABADIE R.P. Inhibition of human complement by β-glycyrrhetinic acid, 115
KROESE F.G.M. *see* HERMANS M.H.A.
KRUGLUGER W. *see* SPITTLER A.
KVETAN V. *see* SZABÓ C.

LABADIE R.P. *see* KROES B.H.
LABUDA T., PARRA E., HEDLUND G., KALLAND T. & DOHLSTEN M. The tumour-associated cell surface antigen A6H is costimulatory for human $CD4^+$ but not $CD8^+$ T cells, 236
LAI M.-Z. *see* CHANG R.-H.
LAMONTAGNE L., MASSICOTTE E. & C. Mouse hepatitis viral infection induces an extrathymic differentiation of the specific intrahepatic $\alpha\beta$-$TCR^{intermediate}$ $LFA\text{-}1^{high}$ T-cell population
LARRIVA-SAHD J. *see* HERNANDEZ-PANDO R.
LARSSON M., BERGE J., JOHANSSON A.G. & FORSUM U. Human dendritic cells handling of binding, uptake and degradation of free and IgG-immune complexed dinitrophenylated human serum albumin *in vitro*, 138
LEDUC I., DROUET M., BODINIER M.-C., HELAL A. & COGNÉ M. Membrane isoforms of human immunoglobulins of the A1 and A2 isotypes: structural and functional study, 330
LEE K.P. *see* PERRIN P.J.
LEE M.-J. *see* DIALYNAS D.P.
LEENAARS P.P.A.M., SAVELKOUL H.F.J., HENDRIKSEN C.F.M., VAN ROOIJEN N. & CLAASSEN E. Increased adjuvant efficacy in stimulation of antibody responses after macrophage elimination *in vivo*, 337
LEHTO T., MORGAN B.P. & MERI S. Binding of human and rat CD59 to the terminal complement complexes, 121
LENS S.M.A., BAARS P.A., HOOIBRINK B., VAN OERS M.H.J. & VAN LIER R.A.W. Antigen-presenting cell-derived signals determine expression levels of CD70 on primed T cells, 38
LEONARD C. *see* TORMEY V.J.
LESLIE R.G.Q. *see* NIELSEN C.H.
LEUTMEZER F. *see* SPITTLER A.
LIANG B. *see* ARAGHI-NIKNAM M.
LIN FENG M.-H. *see* CHANG R.-H.
LIN Q. *see* SU D.-M.
LIU W.-H. *see* CHANG R.-H.
LIVNAH O. *see* HE M.
LONG A. *see* KEENAN C.
LÓPEZ-GOYANES A. *see* ALLENDE L.M
LÓPEZ-HOYOS M. *see* REVILLA C.
LOWDELL M. *see* BORTHWICK N.J.
LOZANO F. *see* GALLART T.
LUCAS T. *see* SPITTLER A.
LÜDER C.G.K. *see* SOBOSLAY P.T.
LUO Z. *see* CAO Y.
LUQUE I. *see* BLÁZQUEZ M.V.
LYNG I. *see* NIELSEN C.H.

MACARDLE P.J., WEEDON H., FUSCO M., NOBBS S., RIDINGS J., FLEGO L., ROBERTON D.M. & ZOLA H. The antigen receptor complex on cord B lymphocytes, 376
MACCORMAC L.P. *see* BORTHWICK N.J.
MACPHERSON S.A. *see* SANDILANDS G.P.
MACSWEEN R.N.M. *see* SANDILANDS G.P.
MADRID-MARINA V. *see* HERNANDEZ-PANDO R.
MADROÑO A. *see* ALLENDE L.M.
MARCHBANK K.J., VAN DEN BERG C.W. & MORGAN B.P. Mechanisms of complement resistance induced by non-lethal complement attack and by growth arrest, 647
MARIANO F. *see* BUSSOLATI B.
MASSICOTTE E. *see* LAMONTAGNE L.
MASTERS S.R. *see* CARAYANNIOTIS G.
MASTROENI P. *see* HARRISON J.A.
MATTHAEI K.I. *see* TAKAMOTO M.
MATTHIESEN S.H. *see* NIELSEN C.H.
MCCARTHY PASTORES S. *see* SZABÓ C.
MCDERMOTT M.R. *see* SNIDER D.P.
MCLAIN L. & DIMMOCK N.J. A human $CD4^+$ T-cell line expresses functional CD64 (FcγRI), CD32 (FcγRII), and CD16 (FcγRIII) receptors but these do not enhance the infectivity of HIV-1-IgG complexes, 109
MCLENNAN A.G. *see* GASMI L.
MEKORI Y.A., OH C.K., DASTYCH J., GOFF J.P., ADACHI S., BIANCHINE P.J., WOROBEC A., SEMERE T., PIERCE J.H. & METCALFE D.D. Characterization of a mast cell line that lacks the extracellular domain of membrane c-kit, 518
MERI S. *see* LEHTO T.
MERINO J. *see* REVILLA C.
METCALFE D.D. *see* MEKORI Y.A.
MIKAMI M. *see* SAITO K.
MILLER A. *see* GREWAL I.S.
MILLER H.R.P. *see* WASTLING J.M.
MILLIGAN G. *see* GRANT K.R.
MIRE-SLUIS A.R. *see* CHARAN S.
MIYAMA A. *see* TSUJI T.
MIYAMARU M. *see* SAITO K.
MOHAPATRA S.S. *see* CAO Y.
MÖLLER G. *see* HU H.
MOMOSE T. *see* HORIE S.
MONTRUCCHIO G. *see* BUSSOLATI B.
MOR G. *see* DAYAN M.
MORE I.A.R. *see* SANDILANDS G.P.
MORENO C. *see* ROMAN E.
MORGAN B.P. *see* LEHTO T.
MORGAN B.P. *see* MARCHBANK K.J.
see also RUSHMERE N.K.
MORIMOTO C. *see* HEGEN M.
MOZES E. *see* DAYAN M.
MUÑOZ E. *see* BLÁZQUEZ M.V.

MURPHY J.W. *see* BUCHANAN K.L.
MYERS L.K., SEYER J.M., STUART J.M. & KANG A.H. Suppression of murine collagen-induced arthritis by nasal administration of collagen, 161

NACHBAUR D., HEROLD M., EIBL B., GLASSL H., SCHWAIGHOFER H., HUBER C., GÄCHTER A., PICHL M. & NIEDERWIESER D. A comparative study of the *in vitro* immunomodulatory activity of human intact immunoglobulin (7S IVIG), $F(ab')_2$ fragments (5S IVIG) and Fc fragments. Evidence for post-transcriptional IL-2 modulation, 212
NAGASO K. *see* SAITO K.
NAKABO Y. & PABST M.J. C_2-ceramide and C_6-ceramide inhibited priming for enhanced release of superoxide in monocytes, but had no effect on the killing of leukaemic cells by monocytes, 477
NEL A.E. *see* FARIS M.
NÉMETH Z.H. *see* SZABÓ C.
NEUMANN C. *see* BAUER H.
NEUNER P., KLOSNER G., POURMOJIB M., KNOBLER R. & SCHWARZ T. Pentoxifylline *in vivo* and *in vitro* down-regulates the expression of the intercellular adhesion molecule-1 in monocytes, 435
NEWLANDS G.F.J. *see* WASTLING J.M.
NIEDERWIESER D. *see* NACHBAUR D.
NIELSEN C.H., MATTHIESEN S.H., LYNG I. & LESLIE R.G.Q. The role of complement receptor type 1 (CR1, CD35) in determining the cellular distribution of opsonized immune complexes between whole blood cells: kinetic analysis of the buffering capacity of erythrocytes, 129
NIETHAMMER D. *see* HOLZER U.
NIHRANE A. & SILVER J. Spontaneous priming for anti-viral envelope cytotoxic T lymphocytes in mice transgenic for a murine leukaemia virus envelope gene (*Fv4*), 219
NOBBS S. *see* MACARDLE P.J.
NOELLE R.J. *see* CARAYANNIOTIS G.

OH C.K. *see* MEKORI Y.A.
ÖLHER R. *see* SPITTLER A.
OKABE H. *see* ANDOH A.
OKUBO T. *see* TSUJI T.
OKUBO Y. *see* HORIE S.
OKUDA K. *see* TSUJI T.
OMAR A.R. & SCHAT K.A. Characterization of Marek's disease herpesvirus-specific cytotoxic T lymphocytes in chickens inoculated with a non-oncogenic vaccine strain of MDV, 579
OPSTELTEN D. *see* HERMANS M.H.A.
ORLIKOWSKY T. *see* HOLZER U.
ORME I.M. *see* FLORIDO M.
OROZCO E.H. *see* HERNANDEZ-PANDO R.
ORUI H., YAMAKAWA M. & IMAI Y. Proliferation and apoptosis of follicular lymphocytes: relationship to follicular dendritic cell-associated clusters, 489
OTTENHOFF T.H.M. *see* GELUK A.
OVINGTON K.S. *see* TAKAMOTO M.

PABST M.J. *see* NAKABO Y.
PACE C. *see* LAMONTAGNE L.
PALMER K. *see* CHARAN S.
PARKHOUSE R.M.E. *see* SANTOS-ARGUMEDO L.
PARRA E. *see* LABUDA T.
PARTIDA-SÁNCHEZ S. *see* SANTOS-ARGUMEDO L.
PAYNE J.A. *see* DELEHANTY L.L.
PELECH S.L. *see* JACKSON J.K.
PEÑA J. *see* BLÁZQUEZ M.V.
PERRIN P.J., DAVIS T.A., SMOOT D.S., ABE R., JUNE C.H. & LEE K.P. Mitogenic stimulation of T cells reveals differing contributions for B7-1 (CD80) and B7-2 (CD86) costimulation, 534
PICCOLI G. *see* BUSSOLATI B.
PICHL M. *see* NACHBAUR D.
PIERCE J.H. *see* MEKORI Y.A.
PILSTRÖM B. & BÖHME J. Alleviation of insulitis in NOD mice is associated with expression of transgenic MHC E molecules on primary antigen-presenting cells, 483
POULTER L.W. *see* TORMEY V.J.
POURMOJIB M. *see* NEUNER P.

RACZ P. *see* CASTAN J.
RAMÍREZ F. & SILVA A. Glucocorticoids enhance concanavalin A-induced mitogenic response through the inhibition of nitric oxide production, 66
RAO V.P. & CARAYANNIOTIS G. Contrasting immunopathogenic properties of highly homologous peptides from rat and human thyroglobulin, 244
REEN D.J. *see* HASSAN J.
REID P.A., GARDNER S.D., WILLIAMS D.M. & HARNETT M.M. The antigen receptors on mature and immature T lymphocytes are coupled to phosphatidylcholine-specific phospholipase D activation, 250
REISSNER C. *see* SPITTLER A.
REVILLA C., GONZÁLEZ A.L., CONDE C., LÓPEZ-HOYOS M. & MERINO J. Treatment with anti-LFA-1α monoclonal antibody selectively interferes with the maturation of $CD4^-8^+$ thymocytes, 550
RIDINGS J. *see* MACARDLE P.J.
ŘÍHA I. *see* ŠÍROVÁ M.
ŘÍHOVÁ B. *see* ŠÍROVÁ M.
ROBERTON D.M. *see* MACARDLE P.J.
RODRÍGUEZ-GALLEGO C. *see* ALLENDE L.M.
ROGERS T.J. *see* BRIGGS C.
ROMAN E. & MORENO C. Delayed-type hypersensitivity elicited by synthetic peptides complexed with *Mycobacterium tuberculosis* hsp 70, 52
ROSAL M. *see* ALLENDE L.M.
ROTH E. *see* SPITTLER A.
RUSHMERE N.K., TOMLINSON S. & MORGAN B.P. Expression of rat CD59: functional analysis confirms lack of species selectivity and reveals that glycosylation is not required for function, 640

SAHL B. *see* JACKSON J.K.
SAITO K., KATSURAGI H., MIKAMI M., KATO C., MIYAMARU M. & NAGASO K. Increase of heat-shock protein and induction of γ/δ T cells in peritoneal exudate of mice after injection of live *Fusobacterium nucleatum*, 229
SAKUMOTO H. *see* ANDOH A.
SALMON M. *see* BORTHWICK N.J.
SALZMAN A.L. *see* SZABÓ C.
SAMPIERI A. *see* HERNANDEZ-PANDO R.
SANDILANDS G.P., BURNETT E.R., MACPHERSON S.A., DOWNIE I., MORE I.A.R. & MACSWEEN R.N.M. Demonstration of cytoplasmic CD32 ($Fc\gamma RII$) within human lymphocytes following microwave treatment, 427
SANTOS-ARGUMEDO L., KINCADE P.W., PARTIDA-SÁNCHEZ S. & PARKHOUSE R.M.E. CD44-stimulated dendrite formation ('spreading') in activated B cells, 147
SAVELKOUL H.F.J. *see* LEENAARS P.P.A.M.
SCHAT K.A. *see* OMAR A.R.
SCHLOSSMAN S.F. *see* HEGEN M.
SCHULZ-KEY H. *see* SOBOSLAY P.T.
SCHWAIGHOFER H. *see* NACHBAUR D.
SCHWARTZ R.C. *see* WEICHERT T.R.
SCHWARZ T. *see* NEUNER P.
SCUDAMORE C.L. *see* WASTLING J.M.
SEKIGUCHI M. *see* HORIE S.
SEMERE T. *see* MEKORI Y.A.
SERCARZ E.E. *see* GREWAL I.S.
SEYER J.M. *see* MYERS L.K.
SHAO L.E. *see* DIALYNAS D.P.
SHEPARD S.L. & HADLEY A.G. Monocyte-bound monoclonal antibodies inhibit the $Fc\gamma RI$-mediated phagocytosis of sensitized red cells: the efficiency and mechanism of inhibition are determined by the nature of the antigen, 314
SHIRWAN H., BARWARI L. & CRAMER D.V. Rejection of cardiac allografts by T cells expressing a restricted repertoire of T-cell receptor Vβ genes, 572
SILVA A. *see* RAMÍREZ F.
ŠÍROVÁ M., HOVORKA O., ŘÍHA I., ŘÍHOVÁ B., BAUDYŠ M., KIM S.-W. & SKAMENE E. The *in vivo* antibody response

against exogenous antigens is not influenced by the mouse *Bcg (Nramp1)* gene, 626
SKAMENE E. *see* ŠÍROVÁ M.
SMITHGALL M.D. *see* WONG J.G.P.
SMOOT D.S. *see* PERRIN P.J.
SNIBSON K.J. *see* HARDY C.L.
SNIDER D.P., UNDERDOWN B.J. & MCDERMOTT M.R. Intranasal antigen targeting to MHC class II molecules primes local IgA and serum IgA antibody responses in mice, 323
SOBOSLAY P.T., GEIGER S.M., WEISS N., BANLA M., LÜDER C.G.K., DREWECK C.M., BATCHASSI E., BOATIN B.A., STADLER A. & SCHULZ-KEY H. The diverse expression of immunity in humans at distinct states of *Onchocerca volvulus* infection, 592
SOLANA R. *see* BLÁZQUEZ M.V.
SPITTLER A., WILLHEIM M., LEUTMEZER F., ÖLHER R., KRUGLUGER W., REISSNER C., LUCAS T., BRODOWICZ T., ROTH E. & BOLTZ-NITULESCU G. Effects of 1α, 25-dihydroxyvitamin D_3 and cytokines on the expression of MHC antigens, complement receptors and other antigens on human blood monocytes and U937 cells: role in cell differentiation and phagocytosis, 286
STADLER A. *see* SOBOSLAY P.T.
STAHL N. *see* FARIS M.
STASIUK L.M., GHORAISHIAN M., ELSON C.J. & THOMPSON S.J. Pristane-induced arthritis is $CD4^+$ T-cell dependent, 81
STHOEGER Z. *see* DAYAN M.
STICHTENOTH D.O. *see* BAUER H.
STUART J.M. *see* MYERS L.K.
STURA E.A. *see* HE M.
SU D.-M., WANG J., LIN Q., COOPER M.D. & WATANABE T. Interferons α/β inhibit IL-7-induced proliferation of $CD4^-$ $CD8^-$ $CD3^-$ $CD44^+$ $CD25^+$ thymocytes, but do not inhibit that of $CD4^-$ $CD8^-$ $CD3^-$ $CD44^-$ $CD25^-$ thymocytes, 543
SUGANE K. *see* TAKAMOTO M.
SUMIYOSHI K. *see* ANDOH A.
SUZUKI J. *see* HORIE S.
SZABÓ C., HASKO G., ZINGARELLI B., NÉMETH Z.H., SALZMAN A.L., KVETAN V., MCCARTHY PASTORES S. & VIZI E.S. Isoproterenol regulates tumour necrosis factor, interleukin-10, interleukin-6 and nitric oxide production and protects against the development of vascular hyporeactivity in endotoxaemia, 95

TAKAMOTO M., OVINGTON K.S., BEHM C.A., SUGANE K., YOUNG I.G. & MATTHAEI K.I. Eosinophilia, parasite burden and lung damage in *Toxocara canis* infection in C57Bl/6 mice genetically deficient in IL-5, 511
TAN P.C. *see* DIALYNAS D.P.
TANI K. *see* TSUJI T.
TAUSSIG M.J. *see* HE M.
TENNER-RACZ K. *see* CASTAN J.
THOMPSON S.J. *see* STASIUK L.M.
THORNTON E.M. *see* WASTLING J.M.
TOMLINSON S. *see* RUSHMERE N.K.
TORMEY V.J., FAUL J., LEONARD C., BURKE C.M., DILMEC A. & POULTER L.W. T-cell cytokines may control the balance of functionally distinct macrophage populations, 463
TSIKAS D. *see* BAUER H.
TSUJI T., FUKUSHIMA J., HAMAJIMA K., ISHII N., AOKI I., BUKAWA H., ISHIGATSUBO Y., TANI K., OKUBO T., DORF M.E. & OKUDA K. HIV-1-specific cell-mediated immunity is enhanced by co-inoculation of TCA3 expression plasmid with DNA vaccine, 1
TSUJI T., YOKOCHI T., KAMIYA H., KAWAMOTO Y., MIYAMA A. & ASANO Y. Relationship between a low toxicity of the mutant A subunit of enterotoxigenic *Escherichia coli* enterotoxin and its strong adjuvant action, 176
TUDAN C. *see* JACKSON J.K.

UNDERDOWN B.J. *see* SNIDER D.P.

VAN DEN BERG A.J.J. *see* KROES B.H.
VAN DEN BERG C.W. *see* MARCHBANK K.J.
VAN DIJK H. *see* KROES B.H.
VAN LIER R.A.W. *see* LENS S.M.A.
VAN MEIJGAARDEN K.E. *see* GELUK A.
VAN OERS M.H.J. *see* LENS S.M.A.
VAN ROOIJEN N. *see* LEENAARS P.P.A.M.
VILLARREAL-RAMOS B. *see* HARRISON J.A.
VINCE G.S. *see* DE MORAES-PINTO M.I.
VIZI E.S. *see* SZABÓ C.
VOLKOV Y. *see* KEENAN C.

WANG J. *see* SU D.-M.
WASTLING J.M., SCUDAMORE C.L., THORNTON E.M., NEWLANDS G.F.J. & MILLER H.R.P. Constitutive expression of mouse mast cell protease-1 in normal BALB/c mice and its up-regulation during intestinal nematode infection, 308
WATANABE T. *see* SU D.-M.
WATSON R.R. *see* ARAGHI-NIKNAM M.
WEEDON H. *see* MACARDLE P.J.
WEICHERT T.R. & SCHWARTZ R.C. Induction of murine CD5 expression by v-H-*ras*, 30
WEISS N. *see* SOBOSLAY P.T.
WILKINSON P.C. *see* KOMAI-KOMA M.
WILLHEIM M. *see* SPITTLER A.
WILLIAMS D.M. *see* REID P.A.
WILSON I.A. *see* HE M.
WOLBINK G.J. *see* KROES B.H.
WONG J.G.P., SMITHGALL M.D. & HAFFAR O.K. TCR-independent CD28-mediated gene expression in peripheral blood lymphocytes from donors chronically infected with HIV-1, 281
WOROBEC A. *see* MEKORI Y.A.

YAMAKAWA M. *see* ORUI H.
YANG M. *see* CAO Y.
YOKOCHI T. *see* TSUJI T.
YONG K.L. *see* BORTHWICK N.J.
YOUNG I.G. *see* TAKAMOTO M.
YU J. *see* DIALYNAS D.P.

ZEHRER C. *see* HOLZER U.
ZHANG L. *see* BRIGGS C.
ZHANG Z. *see* ARAGHI-NIKNAM M.
ZINGARELLI B. *see* SZABÓ C.
ZINGER H. *see* DAYAN M.
ZOLA H. *see* MACARDLE P.J.

Subject Index

Adjuvant action of *Escherichia coli* enterotoxin and low toxicity, 176
Antibody, to oestrone-3-glucoronide, sequence:
  specificity and crystallization, 632
Apoptosis:
  in a Fas-resistant T-cell clone, 383
Arthritis, collagen induced:
  suppression by nasal administration of collagen, 161
Arthritis, pristane induced:
  role of $CD4^+$ T cells, 81

B cells, germinal centre:
  locomotion, 23
B lymphocytes, human cord:
  antigen receptor complex, 375
Bcg (Nramp1) gene:
  no effect on antibody responses to exogenous antigen, 626

Calcitrol:
  effects on mononuclear phagocytes, 286
CD5 expression, murine:
  induction by v-h-*ras*, 30
CD23, cytoplasmic:
  in lymphocytes after microwave treatment, 427
CD26:
  and tyrosine phosphorylation and activation, 257
CD28-mediated gene expression, T-cell receptor independent:
  in HIV-1-infected donors, 281
CD40, bovine:
  role in B-lymphocyte growth, 294
CD44-stimulated dendrite formation:
  in activated B cells, 147
$CD45RA^+$ cord blood T cells:
  activation of, 397
$CD45RB^{lo}$:
  migration across human umbilical vein endothelial cells, 272
CD59, human and rat:
  binding to terminal complement complexes, 121
CD59, rat:
  functional analysis, 640
CD70 expression:
  on human T cells, 38
CD80, CD86:
  roles in mitogenic stimulation, 534
Ceramide:
  inhibition of priming for superoxide release, 477
Chemokine response, reduced:
  in beige mice infected with *Mycobacterium avium*, 600
Complement resistance:
  mechanisms of, 647
Complement, human:
  inhibition by β-glycyrrhetinic acid, 115
CR1:
  role in immune complex binding to blood cells, 129
CTLA-4 expression:
  in lymphoid tissues, 265
Cytotoxic T lymphocytes:
  spontaneous priming in transgenics, 219
  specific for Marek's disease virus, 579

Decay-accelerating factor:
  upregulation by tumour necrosis factor-α, 358
Dehyroepiandrosterone:
  modulation of immune dysfunction in ageing and murine acquired immune deficiency syndrome, 344
Delayed-type hypersensitivity:
  elicited by *Mycobacterium tuberculosis* hsp 70 peptide complexes, 52
Delayed-type hypersensitivity reaction:
  kinetics of cellular infiltration and cytokine production, 189
Dendritic cells, human:
  handling of free and immune-complexed antigen, 138
Desialyation, of T cells:
  and T-cell activation, 57
DNA vaccine, for HIV-1:
  adjuvant action of TC3A, 1

Fcγ receptors:
  expression by $CD4^+$ T-cell line, 109
FcγRI-mediated phagocytosis:
  inhibition of, 314
Follicular lymphocytes, proliferation and apoptosis:
  relationship to follicular dendritic cells, 489

G-protein:
  differential expression during B- and T-cell development, 564

Heat-shock protein and γ/δ T-cell induction:
  by *Fusobacterium nucleatum*, 229
HIS50 antigen:
  on rat B cells, 14

IgA1 and IgA2 membrane isoforms:
  structure and function, 330
Immunoglobulin, IVIG:
  immunomodulation by, 212
Insulitis, in NOD mice:
  associated with major histocompatibility complex E molecule expression on antigen-presenting cells, 483
Intercellular adhesion molecule-1 on eosinophils:
  and protein X release, 301
Interferons-α/β:
  effect on thymocytes, 543
Interleukin-2:
  prevention of superantigen-induced down-regulation of cytotoxic lymphocyte activity *in vivo*, 183
Interleukin-4 and interleukin-4 receptors:
  in human placenta, 87
Interleukin-4 expression:
  increased by nitric oxide, 364
Interleukin-6-induced IgM production, in human B-cell line:
  involvement of Stat3, 350
Interleukin-10:
  modulation of platelet-activating factor and superoxide anions, 440
Intracellular Ca^{2+} mobilization:
  induction in neutrophils by diadenosine polyphosphates, 154
Intrahepatic lymphocyte and liver cancer, 412
Intranasal antigen targeting to major histocompatability complex class II molecules:
  priming of local and serum antibody responses, 323
Isoproterenol:
  effects on cytokine and nitric oxide production in endotoxaemia, 95

Langerhans' cells:
  production of type IV collagenase, 496
LFA-1α in $CD4^-8^+$ thymocyte development, 550

Macrophages:
role in adjuvant efficacy, 337
Macrophage cell line, human:
characterization of, 470
Mast cell line:
lacking extracellular domain of membrane c-Kit, 518
Mast cell protease:
expression during nematode infection, 308
Mercury:
effects on T cells, 198
Mouse hepatitis:
induction of extrathymic T-cell differentiation, 402
Multiple epitopic recombinant allergen:
induction of immune deviation, 46
Murine acquired immune deficiency syndrome, recovery from:
role of 'regression' phenotype, 7

Natural killer cells:
secretion of cytokines, 526
Neutrophils:
calcium pyrophosphate dihydrate activation of MAP kinase, 502
Nitric oxide:
and cytokine production by activated human T cells, 205
regulation of mitogenic responses, 66

Onchocerca volvulus, expression of immunity to:
human, 592

Pentoxifylline:
effect on intracellular adhesion molecule-1, 435
Phospholipase D:
activation in T cells and thymocytes, 250
Protein kinase C:
isotypes in human lymphocytes, 557

Redox status and natural killer cell function, 455
Rejection, of cardiac allografts:
by restricted T cells, 572
Retinol:
and CD3-induction of T-cell activation, 388

Superantigen activity:
staphylococcal enterotoxin B, 169
Superantigen staphylococcal enterotoxin A:
T-cell stimulation and cytokine release, 74

T-cell cytokines:
control of macrophage populations, 463
T-cell function:
environmental regulation, 165
T-cell receptor repertoires:
flexibility, 370
Tamoxifen and anti-oestradiol:
modulation of experimental systemic lupus erythematosus, 101
Thyroglobulin peptides:
properties of homologous, 244
Thyroiditis:
suppression by blockade of CD40–CD40L interaction, 421
Toxacara canis infection:
in interleukin-5 deficient mice, 511
Transforming growth factor-β, induction by equid herpesvirus-1:
and immunosuppression, 586
Tuberculosis, experimental pulmonary:
kinetics and localization of cytokines, 607
Tumour-associated antigen, A6H:
costimulatory activity, 236
Typhoid, murine:
correlates of protection, 618

Very late activation antigen-4 and neutrophil migration, 448